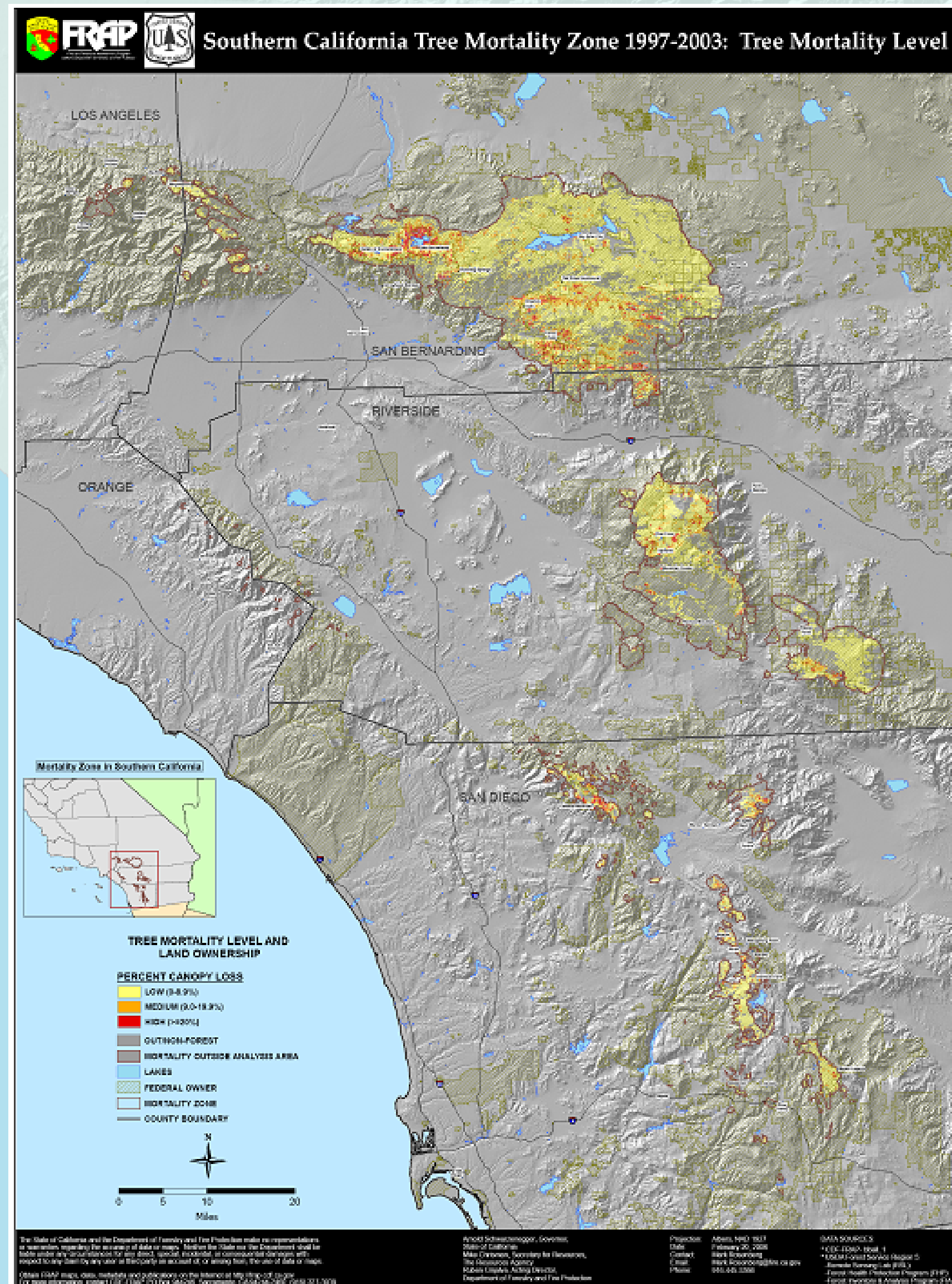


# MAST and FAST Forest Health and Watershed Protection Projects

In spring of 2002, Riverside, San Bernardino, and San Diego Counties made Emergency Declarations to address threats from millions of dead, dying and diseased trees. In spring of 2003 a State Emergency was also declared.



MAST and FAST organizations are comprised of government agencies, private companies and volunteer groups who coordinate their response to the vegetation mortality emergency at the regional level

MAST and FAST agencies include CDF, USFS, NRCS, County government, SCE, SDG&E, and others

Overstocking increases competition for scarce water resources during drought years

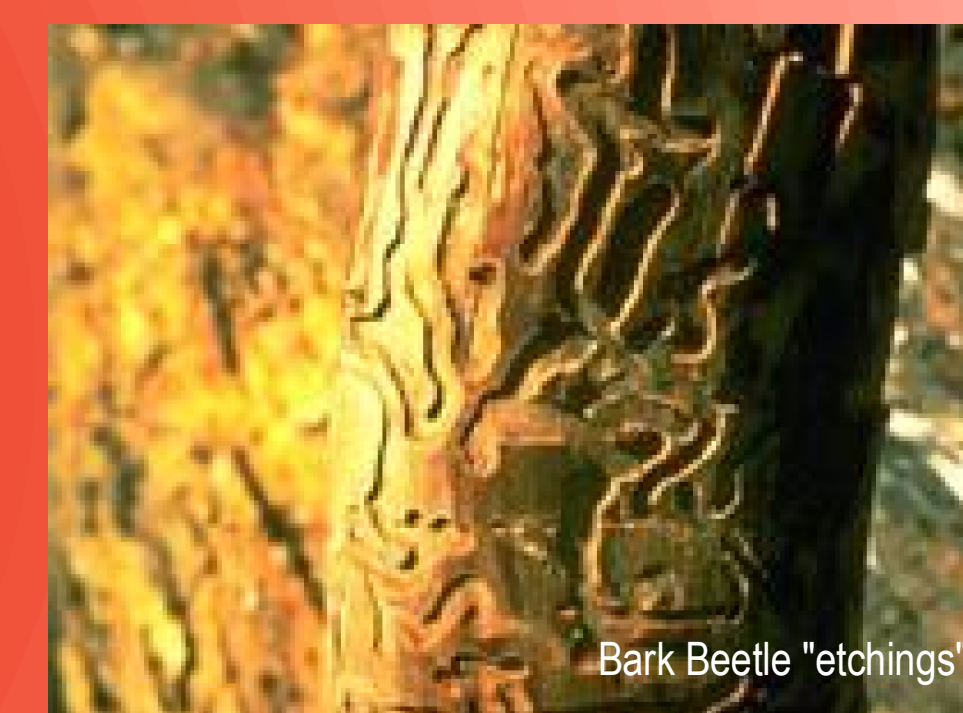


Risk of catastrophic wildland fire is greatly increased



Pines Fire, San Diego County, 2002

Bark Beetles thrive on the drought-stressed trees in epidemic proportions



Bark Beetle "etchings"

Table A-6.3a San Bernardino county acres of dead trees by forest type and mortality level

Forest type	< 20 % mortality	> 20 % mortality	> 40 % mortality	Grand Total
Pine	10,825	23,360	63,549	97,741
Hardwood	3,240	8,899	49,797	61,936
Pinon-juniper	2,627	27,627	27,627	57,881
Subalpine mixed	6,353	63,365	63,365	133,083
Total	14,085	105,341	204,338	323,764

Table A-6.3b San Diego county acres of dead trees by forest type and mortality level

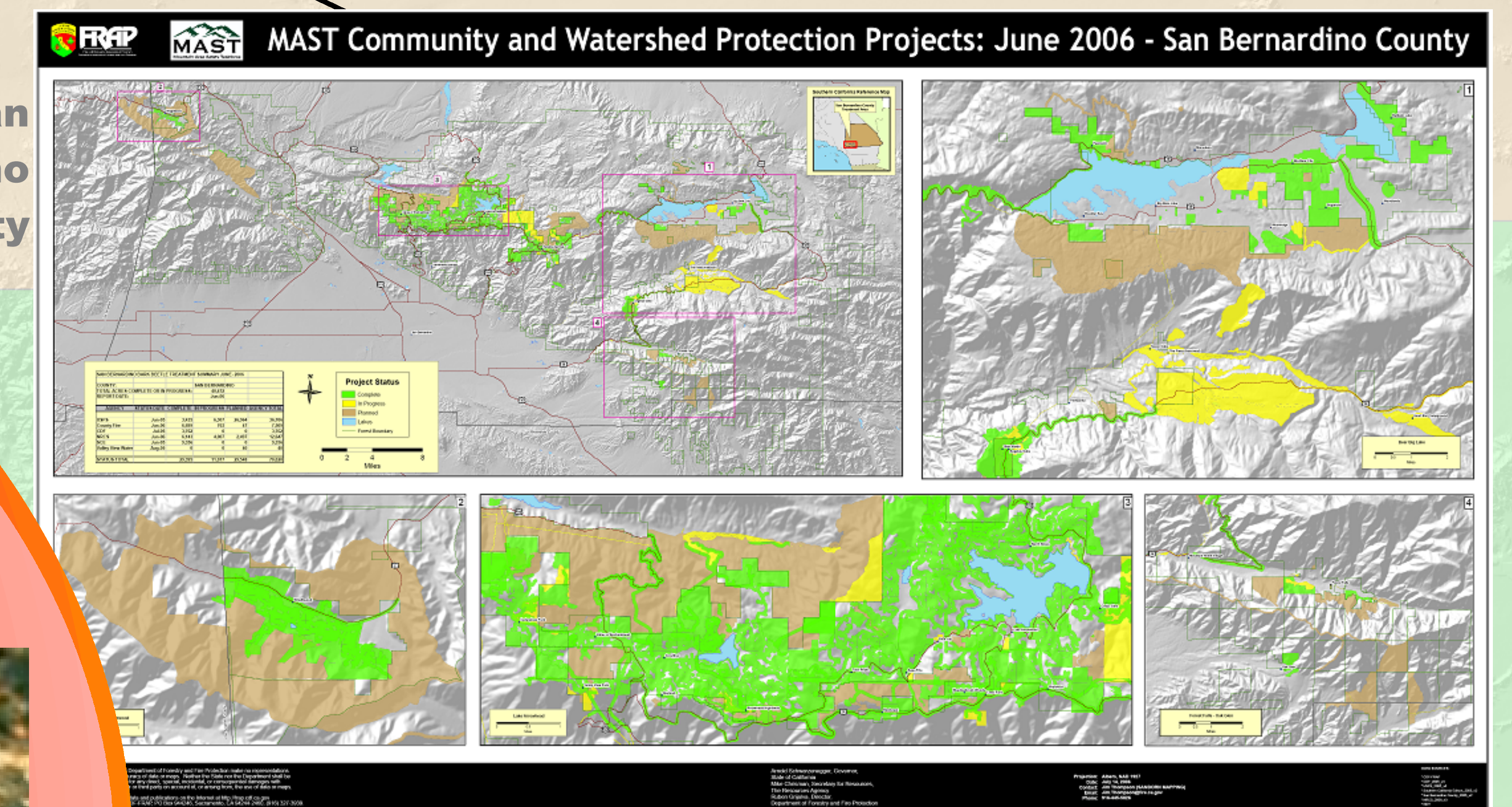
Forest type	< 20 % mortality	> 20 % mortality	> 40 % mortality	Grand Total
Pine	1,163	1,948	4,646	7,757
Hardwood	1,210	3,320	15,561	20,091
Pinon-juniper	9,812	9,812	9,812	29,436
Subalpine mixed	3,498	8,624	68,300	80,422
Total	6,683	13,694	98,319	118,696

Source: Inventory of Tree Mortality in Southern California Watersheds (2001-2004) due to Bark Beetle Insects  
http://www.cdf.ca.gov/projects/forest/FAST/FULL\_REPORT\_6.14.06.pdf

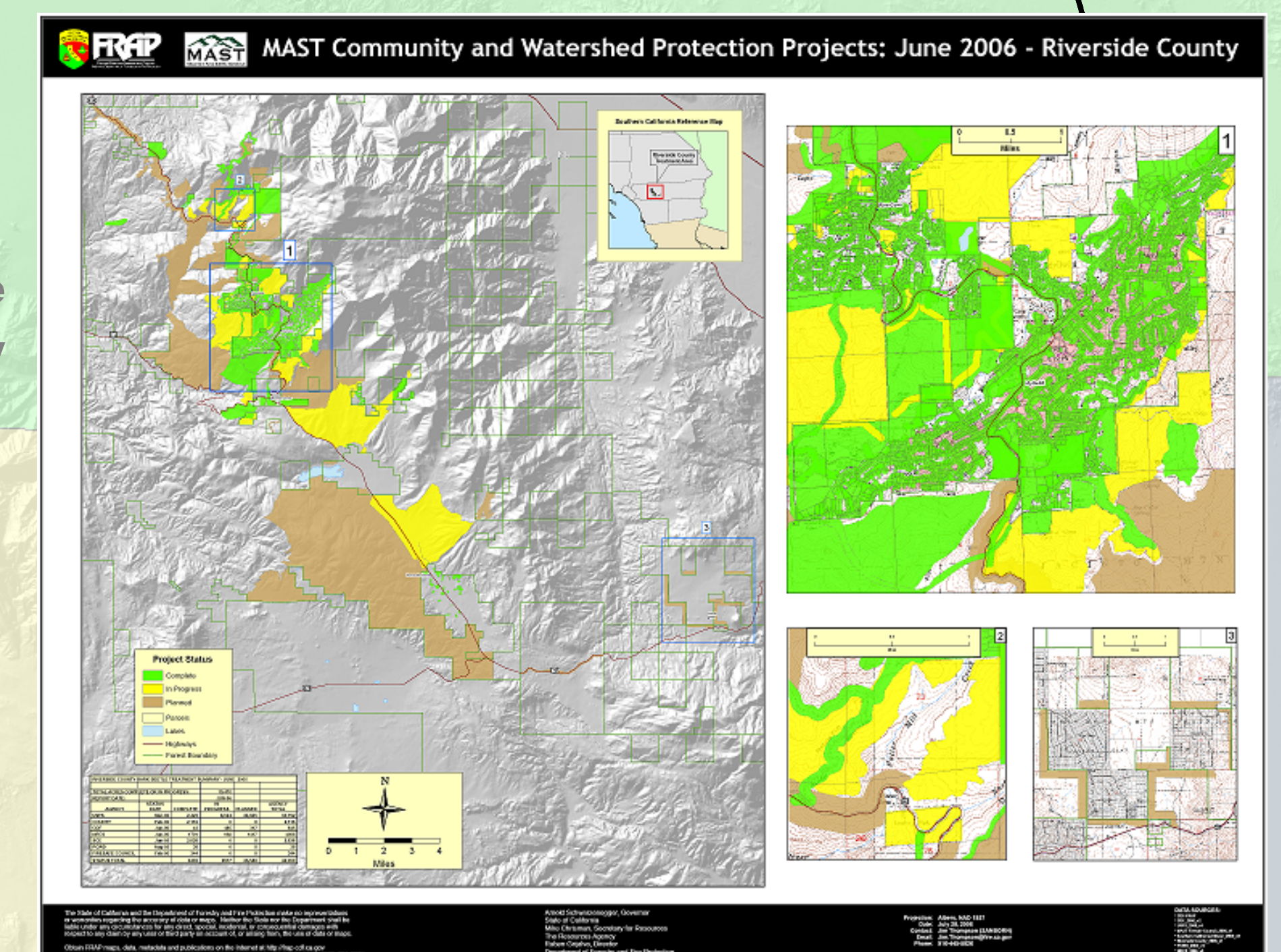


San Bernardino National Forest

Conifer mortality has spread across hundreds of thousands of acres and has negative impacts on forest health



MAST and FAST projects are conducted in each county



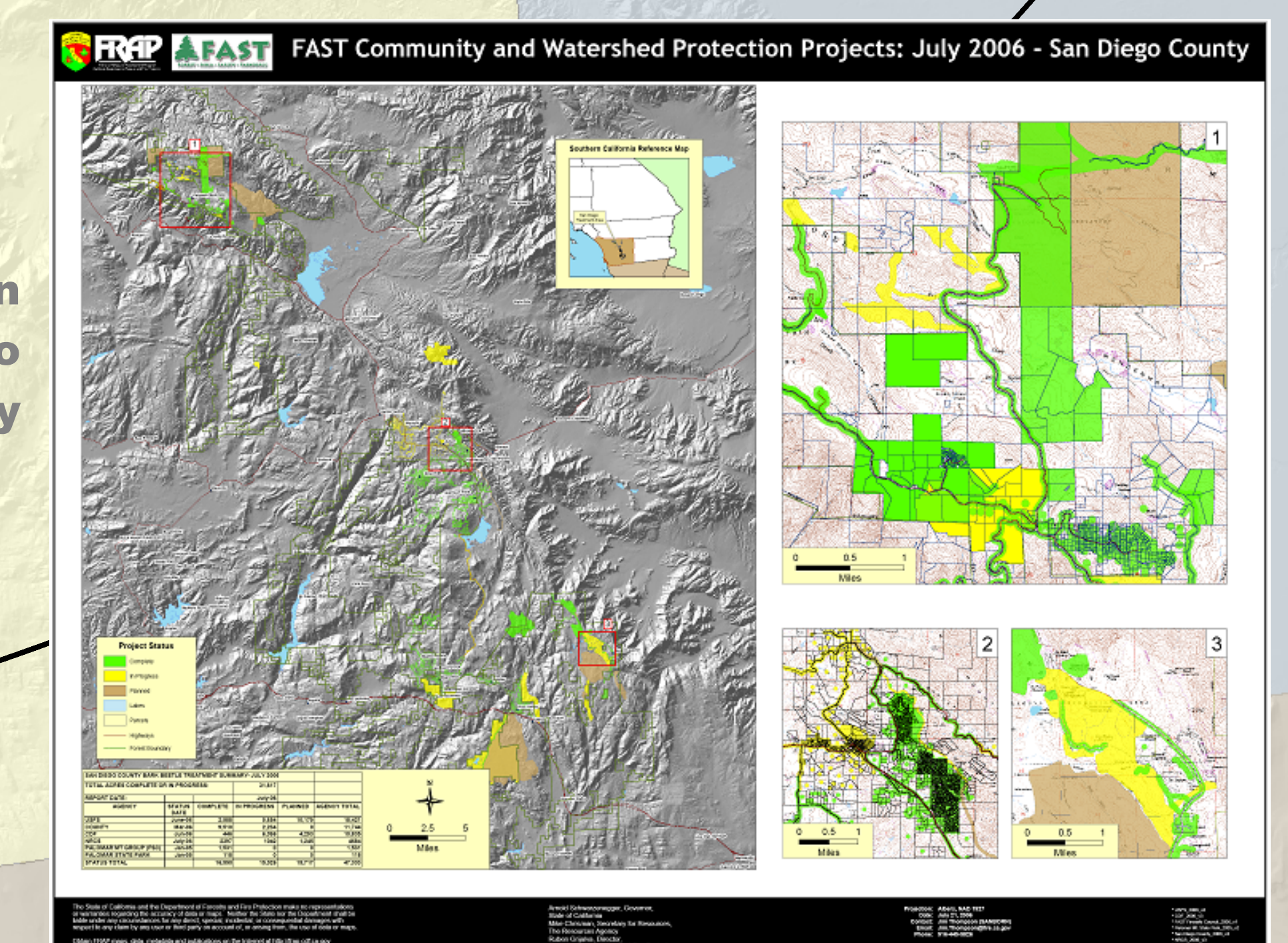
Good Data + Good Decisions + Collaboration = Improved Forest Health



MAST and FAST projects improve forest health and watershed protection



In San Diego County FAST will remove hazardous fuels on 47,000 acres



Imperial County



Public policy decisions in recent decades have contributed to overstocked forests in Southern California. Recent years of drought have increased stress on conifers in the region leading to a Bark Beetle epidemic and millions of dead, dying, and diseased trees. These conditions create severe impacts to forest health and public safety by increasing risk of catastrophic wildfire, degraded watersheds, and threats to infrastructure.

This poster illustrates assessment and hazardous fuel reduction activities in Riverside, San Bernardino, and San Diego Counties and shows the collaborative efforts of the MAST and FAST organizations to improve forest health and public safety.

To access downloadable maps, data, and reports please visit:  
<http://frap.cdf.ca.gov/projects/mast/>

For further information please visit: FAST: <http://www.scdcpw.org/tree/>;  
MAST: <http://www.calmast.org/mast/public/index.html>  
CDF FRAP: <http://frap.cdf.ca.gov/>